



Report Number : 47802

Date : 1/10/2006

Subject : 15 Water Samples  
Project Name : Dave's 76  
Project Number : NC-20

## Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample MW-7.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample MW-8. These hydrocarbons are higher boiling than typical diesel fuel.

Approved By: \_\_\_\_\_

  
Joel Kiff



Report Number : 47802

Date : 1/10/2006

Project Name : **Dave's 76**Project Number : **NC-20**Sample : **MW-3**

Matrix : Water

Lab Number : 47802-01

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Methyl-t-butyl ether (MTBE)	0.74	0.50	ug/L	EPA 8260B	1/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/6/2006
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	1/6/2006
4-Bromofluorobenzene (Surr)	94.4		% Recovery	EPA 8260B	1/6/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	85.4		% Recovery	M EPA 8015	1/9/2006

Sample : **MW-5**

Matrix : Water

Lab Number : 47802-02

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	4.6	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	94.0		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	84.2		% Recovery	M EPA 8015	1/9/2006

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Report Number : 47802

Date : 1/10/2006

Project Name : **Dave's 76**Project Number : **NC-20**Sample : **MW-6**

Matrix : Water

Lab Number : 47802-03

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Methyl-t-butyl ether (MTBE)	56	0.50	ug/L	EPA 8260B	1/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/6/2006
Toluene - d8 (Surr)	96.6		% Recovery	EPA 8260B	1/6/2006
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	1/6/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	84.0		% Recovery	M EPA 8015	1/9/2006

Sample : **MW-7**

Matrix : Water

Lab Number : 47802-04

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	98	1.5	ug/L	EPA 8260B	1/7/2006
Toluene	1.8	1.5	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	97	1.5	ug/L	EPA 8260B	1/7/2006
Total Xylenes	100	1.5	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	730	1.5	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	5800	150	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 2000	2000	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	85.8		% Recovery	M EPA 8015	1/9/2006

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Report Number : 47802

Date : 1/10/2006

Project Name : **Dave's 76**Project Number : **NC-20**Sample : **MW-8**

Matrix : Water

Lab Number : 47802-05

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	94.8		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	67	50	ug/L	M EPA 8015	1/7/2006
TPH as Motor Oil (Silica Gel)	< 100	100	ug/L	M EPA 8015	1/7/2006
Octacosane (Diesel Surrogate)	86.6		% Recovery	M EPA 8015	1/7/2006

Sample : **MW-9**

Matrix : Water

Lab Number : 47802-06

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	94.0		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	91.0		% Recovery	M EPA 8015	1/9/2006

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Report Number : 47802

Date : 1/10/2006

Project Name : **Dave's 76**Project Number : **NC-20**Sample : **MW-10**

Matrix : Water

Lab Number : 47802-07

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Methyl-t-butyl ether (MTBE)</b>	23	0.50	ug/L	EPA 8260B	1/7/2006
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	95.4		% Recovery	EPA 8260B	1/7/2006
<b>TPH as Diesel (Silica Gel)</b>	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	92.2		% Recovery	M EPA 8015	1/9/2006

Sample : **MW-11**

Matrix : Water

Lab Number : 47802-08

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
<b>Methyl-t-butyl ether (MTBE)</b>	8.4	0.50	ug/L	EPA 8260B	1/7/2006
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	94.3		% Recovery	EPA 8260B	1/7/2006
<b>TPH as Diesel (Silica Gel)</b>	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	92.6		% Recovery	M EPA 8015	1/9/2006

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Report Number : 47802

Date : 1/10/2006

Project Name : **Dave's 76**Project Number : **NC-20**Sample : **MW-12**

Matrix : Water

Lab Number : 47802-09

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	71	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	94.2		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	93.4		% Recovery	M EPA 8015	1/9/2006

Sample : **MW-13**

Matrix : Water

Lab Number : 47802-10

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	1.1	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	94.2		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/9/2006
Octacosane (Diesel Surrogate)	95.6		% Recovery	M EPA 8015	1/9/2006

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Report Number : 47802

Date : 1/10/2006

Project Name : **Dave's 76**Project Number : **NC-20**Sample : **MW-14**

Matrix : Water

Lab Number : 47802-11

Sample Date :1/5/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	280	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	92.9		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	92.8		% Recovery	M EPA 8015	1/10/2006

Sample : **MW-15**

Matrix : Water

Lab Number : 47802-12

Sample Date :1/5/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	410	0.90	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	93.8		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	94.8		% Recovery	M EPA 8015	1/10/2006

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Report Number : 47802

Date : 1/10/2006

Project Name : Dave's 76

Project Number : NC-20

Sample : MW-16

Matrix : Water

Lab Number : 47802-13

Sample Date :1/5/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Methyl-t-butyl ether (MTBE)	330	0.50	ug/L	EPA 8260B	1/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/6/2006
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	1/6/2006
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	1/6/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	94.6		% Recovery	M EPA 8015	1/10/2006

Sample : MW-17

Matrix : Water

Lab Number : 47802-14

Sample Date :1/5/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	96.0		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	91.8		% Recovery	M EPA 8015	1/10/2006

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Report Number : 47802

Date : 1/10/2006

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-18**

Matrix : Water

Lab Number : 47802-15

Sample Date :1/5/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	370	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	95.7		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	91.4		% Recovery	M EPA 8015	1/10/2006

Approved By:

Joel Kiff



Report Number : 47802

Date : 1/10/2006

**QC Report : Method Blank Data**Project Name : **Dave's 76**Project Number : **NC-20**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	85.2		%	M EPA 8015	1/10/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/7/2006
TPH as Motor Oil (Silica Gel)	< 100	100	ug/L	M EPA 8015	1/7/2006
Octacosane (Diesel Surrogate)	83.6		%	M EPA 8015	1/7/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/6/2006
Toluene - d8 (Surr)	97.2		%	EPA 8260B	1/6/2006
4-Bromofluorobenzene (Surr)	96.9		%	EPA 8260B	1/6/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/6/2006
Toluene - d8 (Surr)	98.0		%	EPA 8260B	1/6/2006
4-Bromofluorobenzene (Surr)	94.7		%	EPA 8260B	1/6/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.8		%	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	94.8		%	EPA 8260B	1/7/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/6/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/6/2006
Toluene - d8 (Surr)	98.5		%	EPA 8260B	1/6/2006
4-Bromofluorobenzene (Surr)	97.6		%	EPA 8260B	1/6/2006

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Report Number : 47802

Date : 1/10/2006

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Dave's 76

Project Number : NC-20

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	840	847	ug/L	M EPA 8015	1/10/06	84.0	84.7	0.747	70-130	25
TPH as Diesel	Blank	<50	1000	1000	769	759	ug/L	M EPA 8015	1/7/06	76.9	75.9	1.35	70-130	25
Benzene	47802-03	<0.50	40.0	40.0	41.9	41.6	ug/L	EPA 8260B	1/6/06	105	104	0.611	70-130	25
Toluene	47802-03	<0.50	40.0	40.0	39.3	39.2	ug/L	EPA 8260B	1/6/06	98.3	98.0	0.320	70-130	25
Tert-Butanol	47802-03	<5.0	200	200	212	209	ug/L	EPA 8260B	1/6/06	106	105	1.40	70-130	25
Methyl-t-Butyl Ether	47802-03	56	40.0	40.0	91.0	91.7	ug/L	EPA 8260B	1/6/06	88.2	89.9	1.91	70-130	25
Benzene	47800-01	<0.50	40.0	40.0	43.7	41.6	ug/L	EPA 8260B	1/6/06	109	104	4.86	70-130	25
Toluene	47800-01	<0.50	40.0	40.0	41.9	38.7	ug/L	EPA 8260B	1/6/06	105	96.7	7.86	70-130	25
Tert-Butanol	47800-01	<5.0	200	200	202	190	ug/L	EPA 8260B	1/6/06	101	95.1	5.79	70-130	25
Methyl-t-Butyl Ether	47800-01	<0.50	40.0	40.0	39.5	38.9	ug/L	EPA 8260B	1/6/06	98.8	97.2	1.56	70-130	25
Benzene	47810-03	0.77	40.0	40.0	43.3	41.4	ug/L	EPA 8260B	1/7/06	106	102	4.46	70-130	25
Toluene	47810-03	<0.50	40.0	40.0	41.1	39.3	ug/L	EPA 8260B	1/7/06	103	98.2	4.58	70-130	25
Tert-Butanol	47810-03	<5.0	200	200	193	196	ug/L	EPA 8260B	1/7/06	96.4	98.1	1.79	70-130	25
Methyl-t-Butyl Ether	47810-03	<0.50	40.0	40.0	38.4	37.5	ug/L	EPA 8260B	1/7/06	96.1	93.7	2.58	70-130	25
Benzene	47802-13	<0.50	40.0	40.0	44.9	44.8	ug/L	EPA 8260B	1/6/06	112	112	0.0595	70-130	25
Toluene	47802-13	<0.50	40.0	40.0	41.1	41.2	ug/L	EPA 8260B	1/6/06	103	103	0.188	70-130	25
Tert-Butanol	47802-13	<5.0	200	200	212	211	ug/L	EPA 8260B	1/6/06	106	105	0.376	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 47802

Date : 1/10/2006

Project Name : Dave's 76

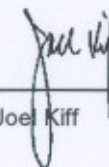
Project Number : NC-20

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-Butyl Ether	47802-13	330	40.0	40.0	362	365	ug/L	EPA 8260B	1/6/06	77.6	85.1	9.22	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff





Report Number : 47802

Date : 1/10/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : Dave's 76

Project Number : NC-20

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/6/06	99.6	70-130
Toluene	40.0	ug/L	EPA 8260B	1/6/06	98.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/6/06	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/6/06	89.5	70-130
Benzene	40.0	ug/L	EPA 8260B	1/6/06	103	70-130
Toluene	40.0	ug/L	EPA 8260B	1/6/06	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/6/06	98.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/6/06	97.8	70-130
Benzene	40.0	ug/L	EPA 8260B	1/7/06	102	70-130
Toluene	40.0	ug/L	EPA 8260B	1/7/06	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/7/06	99.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/7/06	97.3	70-130
Benzene	40.0	ug/L	EPA 8260B	1/6/06	110	70-130
Toluene	40.0	ug/L	EPA 8260B	1/6/06	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/6/06	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/6/06	103	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





Project Contact (Hardcopy or PDF To): <u>Andrew Lalicero</u>			California EDF Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Chain-of-Custody Record and Analysis Request																										
Company / Address: <u>Blue Rock Env. Inc.</u> <u>535 3rd St. Ste. 100 Eureka CA</u>			Sampling Company Log Code:																													
Phone #: <u>(707) 441-1934</u>		Fax #: <u>(707) 441-1949</u>		Global ID: <u>T0602300497</u>		Analysis Request																										
Project #: <u>NC-20</u>		P.O. #:		EDF Deliverable To (Email Address): <u>andrew@bluerockenv.com</u>																												
Project Name: <u>Dave's 76</u>				Sampler Signature: <u>Dan Linderman</u>		TAT <input type="checkbox"/> 12 hr <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input checked="" type="checkbox"/> 1 wk For Lab Use Only																										
Project Address: <u>1666 Main St.</u> <u>Fortuna, CA</u>																																
Sample Designation	Sampling		Container				Preservative			Matrix			MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 824.2 Drinking Water)	TPH as Diesel (EPA 8015M) <u>Silica gel</u>	TPH as Motor Oil (EPA 8015M) <u>Silica gel</u>	Total Lead (EPA 8010)	W.E.T. Lead (STLC)						
	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO <sub>3</sub>	None	Water	Soil																	Air			
MW-3	1/4/06	12:50	6					X			X			X	X	X															X	01
MW-5		13:15																														02
MW-6		13:35																														03
MW-7		12:25																														04
MW-8		12:00																							X							05
MW-9		11:40																														06
MW-10		14:00																														07
MW-11		14:30																														08
MW-12		14:55																														09
MW-13		15:25																														10
Relinquished by: <u>Dan Linderman</u>		Date: <u>1/5/06</u>	Time:	Received by: <u>Fed Ex</u>		Remarks:																										
Relinquished by:		Date:	Time:	Received by:																												
Relinquished by:		Date:	Time:	Received by Laboratory:																												
		<u>010606</u>	<u>1445</u>	<u>MW 75 - 1/11/06 Analysis</u>		For Lab Use Only: Sample Receipt																										
						Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present																					
						<u>2.8</u>	<u>KT</u>	<u>010606</u>	<u>1148</u>	<u>IR4</u>	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No																					





2795 2nd Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4802

SRG # / Lab No.

47802

Page 1 of 2

Project Contact (Hardcopy or PDF To): <u>Andrew Lo Cicero</u>		California EDF Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Chain-of-Custody Record and Analysis Request																												
Company / Address: <u>Blue Rock Env. Inc.</u> <u>535 3rd St. Ste. 100 Eureka, CA</u>		Sampling Company Log Code:		Analysis Request														TAT														
Phone #: <u>(707) 441-1934</u>	Fax #: <u>(707) 441-1949</u>	Global ID: <u>T0602300497</u>																<input type="checkbox"/> 12 hr														
Project #: <u>NC-20</u>	P.O. #:	EDF Deliverable To (Email Address): <u>andrew@bluerockenv.com</u>																<input type="checkbox"/> 24 hr														
Project Name: <u>Dave's 76</u>		Sampler Signature: <u>James Linderman</u>																<input type="checkbox"/> 48 hr														
Project Address: <u>1666 Main St.</u> <u>Fortuna, CA</u>		Sampling		Container		Preservative			Matrix													<input type="checkbox"/> 72 hr										
		Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO <sub>3</sub>	None	Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 8010)	W.E.T. Lead (STLC)				
Sample Designation																															<input checked="" type="checkbox"/> 1 wk	
MW-14		1/5/06	8:50	6					X			X			X	X	X								X						X	11
MW-15			9:20																													12
MW-16			9:50																													13
MW-17			10:20	5																												14
MW-18		↓	10:50	↓					↓			↓			↓	↓	↓								↓					↓		15
Relinquished by:		Date	Time	Received by:		Remarks:																										
<u>James Linderman</u>		<u>1/5/06</u>		<u>Fed EX</u>																												
Relinquished by:		Date	Time	Received by:		Bill to:																										
Relinquished by:		Date	Time	Received by Laboratory:		For Lab Use Only: Sample Receipt																										
		<u>01/06/06</u>	<u>1148</u>	<u>DW TS - KIFF Analytical</u>																												
						Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present																					
												Yes / No																				





Report Number : 47801

Date : 1/11/2006

Andrew LoCicero  
Blue Rock Environmental, Inc.  
535 3rd Street, Suite 100  
Eureka, CA 95501

Subject : 3 Water Samples  
Project Name : Dave's 76  
Project Number : NC-20

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff





Report Number : 47801

Date : 1/11/2006

Project Name : Dave's 76

Project Number : NC-20

Sample : EX-1 Influent

Matrix : Water

Lab Number : 47801-01

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.90	0.90	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.90	0.90	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	11	0.90	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.90	0.90	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	520	0.90	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	130	90	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	93.6		% Recovery	M EPA 8015	1/10/2006

Sample : Effluent #1

Matrix : Water

Lab Number : 47801-02

Sample Date :1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	94.6		% Recovery	M EPA 8015	1/10/2006

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800





Report Number : 47801

Date : 1/11/2006

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **Effluent Main**

Matrix : Water

Lab Number : 47801-03

Sample Date : 1/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	1/7/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	93.8		% Recovery	M EPA 8015	1/10/2006

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



QC Report : Method Blank Data

Project Name : **Dave's 76**

Project Number : **NC-20**

Report Number : 47801

Date : 1/11/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/10/2006
Octacosane (Diesel Surrogate)	85.2		%	M EPA 8015	1/10/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/7/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/7/2006
Toluene - d8 (Surr)	98.1		%	EPA 8260B	1/7/2006
4-Bromofluorobenzene (Surr)	98.1		%	EPA 8260B	1/7/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff



Report Number : 47801

Date : 1/11/2006

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

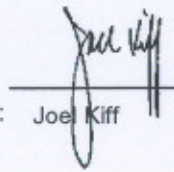
Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	47805-01	<0.50	40.0	40.0	43.9	42.3	ug/L	EPA 8260B	1/7/06	110	106	3.74	70-130	25
Toluene	47805-01	<0.50	40.0	40.0	39.8	38.8	ug/L	EPA 8260B	1/7/06	99.6	97.0	2.69	70-130	25
Tert-Butanol	47805-01	<5.0	200	200	201	203	ug/L	EPA 8260B	1/7/06	101	101	0.798	70-130	25
Methyl-t-Butyl Ether	47805-01	<0.50	40.0	40.0	41.1	40.3	ug/L	EPA 8260B	1/7/06	103	101	1.85	70-130	25
TPH as Diesel	Blank	<50	1000	1000	840	847	ug/L	M EPA 8015	1/10/06	84.0	84.7	0.747	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff



QC Report : Laboratory Control Sample (LCS)

Report Number : 47801

Date : 1/11/2006

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/7/06	110	70-130
Toluene	40.0	ug/L	EPA 8260B	1/7/06	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/7/06	111	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/7/06	105	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





Distribution: White - Lab; Pink - Originator  
Rev: 051806





Report Number : 47849

Date : 1/13/2006

Andrew LoCicero  
Blue Rock Environmental, Inc.  
535 3rd Street, Suite 100  
Eureka, CA 95501

Subject : 1 Vapor Sample  
Project Name : Dave's 76  
Project Number : NC-20

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff





Report Number : 47849

Date : 1/13/2006

Project Name : Dave's 76

Project Number : NC-20

Sample : Disch. Effluent

Matrix : Air

Lab Number : 47849-01

Sample Date : 1/9/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	1/12/2006
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	1/12/2006
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	1/12/2006
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	1/12/2006
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	1/12/2006
Benzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/12/2006
Toluene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/12/2006
Ethylbenzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/12/2006
Total Xylenes (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/12/2006
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	ppmv	EPA 8260B	1/12/2006
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	1/12/2006
TPH as Gasoline (in ppmv)	< 5.0	5.0	ppmv	EPA 8260B	1/12/2006
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	1/12/2006
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	1/12/2006

Approved By:

Joel Kiff



**QC Report : Method Blank Data**Project Name : **Dave's 76**Project Number : **NC-20**

Report Number : 47849


Date : 1/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	1/11/2006
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	1/11/2006
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	1/11/2006
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	1/11/2006
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	1/11/2006
Benzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/11/2006
Toluene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/11/2006
Ethylbenzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/11/2006
Total Xylenes (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	1/11/2006
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	ppmv	EPA 8260B	1/11/2006
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	1/11/2006
TPH as Gasoline (in ppmv)	< 5.0	5.0	ppmv	EPA 8260B	1/11/2006
Toluene - d8 (Surr)	100		%	EPA 8260B	1/11/2006
4-Bromofluorobenzene (Surr)	94.9		%	EPA 8260B	1/11/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff





2795 2nd Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4802

SRG # / Lab No.

47849

Page

1 of 1

Project Contact (Hardcopy or PDF To):

Andrew Polanco

California EDF Report?

☐ Yes

☒ No

### Chain-of-Custody Record and Analysis Request

Company / Address: Blue Rock Env.

535 3rd St. #100 Berkeley CA 94701

Sampling Company Log Code:

Phone #:

707 4111434

Fax #:

707 4111949

Global ID:

045

Project #:

NC-20

P.O. #:

EDF Deliverable To (Email Address):

andrew@bluerockenv.com

Project Name:

Dave's 76

Sample Signature:

A. Polanco

Project Address:

1666 main st.  
Berkeley CA

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

40 ml VOA

Sleeve

Poly

Glass

Tedlar

HCl

HNO<sub>3</sub>

None

Dark

Water

Soil

Air

MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb

MTBE (EPA 8260B) @ 0.5 ppb

BTEX (EPA 8260B)

TPH Gas (EPA 8260B)

5 Oxygenates (EPA 8260B)

7 Oxygenates (EPA 8260B)

Lead Scav (1.2 DCA & 1.2 EDB-EPA 8260B)

Volatile Halocarbons (EPA 8260B)

Volatile Organics Full List (EPA 8260B)

Volatile Organics (EPA 524.2 Drinking Water)

TPH as Diesel (EPA 8015M)

TPH as Motor Oil (EPA 8015M)

Total Lead (EPA 6010)

W.E.T. Lead (STLC)

TAT

☐ 12 hr

☐ 24 hr

☐ 48 hr

☐ 72 hr

☒ 1 wk

For Lab Use Only

Relinquished by:

A. Polanco

Date

11/10/06

Time

1400

Received by:

FRD EX

Remarks:

results in ppm + mg/m<sup>3</sup>

Relinquished by:

Date

Time

Received by:

Relinquished by:

Date

01/11/06

Time

1158

Received by Laboratory:

Andrew T. - KIFF Analytical

Bill to:

BR Research

For Lab Use Only: Sample Receipt

Temp °C

Initials

Date

Time

Therm. ID #

Coolant Present

Yes / No



**NORTH COAST UNIFIED  
AIR QUALITY MANAGEMENT DISTRICT**



**AUTHORITY TO CONSTRUCT # NAC-472**

IS HEREBY GRANTED TO:

**Blue Rock Environmental  
535 Third Street #100  
Eureka, CA 95501**

**FOR THE SOURCE LISTED BELOW:**

Soil Remediation via Groundwater Extraction. The project is located in the northwestern portion of California within the County of Humboldt, at 1666 Main St., Fortuna, CA.

**SUBJECT TO THE FOLLOWING CONDITIONS:**

Construction of the equipment must be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise specified herein:



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## **LIST OF ABBREVIATIONS**

CARB	California Air Resources Board
CFM	cubic feet per minute
CFR	Code of Federal Regulations
District	North Coast Unified Air Quality Management District
EPA	Environmental Protection Agency
gpm	gallons per minute
LEL	lower explosive limit
OSHA	Occupational Safety and Health Administration
SCFM	standard cubic feet per minute
TPHg	total petroleum hydrocarbons from gasoline
TPHd	total petroleum hydrocarbons from diesel



## **PERMITTED UNITS**

### **A. Groundwater Extraction System (Permit Number NAC-472)**

**BASIC EQUIPMENT** - The project consists of the installation and operation of a groundwater extraction system intended to remove gasoline, and diesel which have leaked from underground fuel tanks. The system consists of extraction wells that will be constructed to provide access to the contaminated groundwater. A 1" braided nylon hose will bring the contaminated water up to a 300 gallon transfer tank; the water will then pass through a 1 HP transfer pump into a salt filter, then through two, 1,000 pound Activated Carbon Filter Vessels, and discharged to the public sewer system.

## **GENERAL CONDITIONS**

1. This Authority to Construct permit shall be posted in a conspicuous location at the site and shall be made available to North Coast Unified Air Quality Management District (AQMD) representatives upon request.
2. This Authority to Construct permit is issued pursuant to California Health and Safety Code Section 42301.1, and is valid for one year from the date of issue.
3. Knowing and willful misrepresentation of a material fact in the application for the permit, or failure to comply with any condition of the permit or of the AQMD Rules and Regulations, shall be grounds for revocation of this permit.
4. Any violation of any condition of this permit is a violation of AQMD Rules and Regulations, and California State Law.
5. The APCO reserves the right to amend this permit in order to ensure compliance of this operation or to mitigate or abate any public nuisance. Such amendments may include requirements for additional operating conditions, testing, data collection, reporting and other conditions deemed necessary by the APCO to ensure compliance with AQMD rules and Regulations.
6. The Rules, paragraphs, sentences, clauses, and phrases of the permit are severable. If any Rules, paragraphs, sentences, clauses, or phrase referenced should be declared unconstitutional by a valid judgment or decree of a court with competent jurisdiction, such unconstitutionality shall not affect any of the remaining Rules, paragraphs, sentences, clauses, and phrases.
7. This permit is not transferable from either one location to another, from one piece of equipment to another, or from one person to another.



8. This permit is effective only upon payment of fees in accordance with AQMD Rules and Regulations. In the event of facility closure or change of ownership or responsibility, the new owner or operator shall remit fees for the emissions generated or fees for activities unpaid for prior to the aforementioned change in status.
9. The permit and conditions remain in effect in the event of any change in control or ownership of the facility. In the event of any such change in control or ownership of the subject facility, the permittee shall notify the succeeding owner of the permit and conditions and shall notify the AQMD of the change in control or ownership within fifteen (15) days of that change.
10. The "Right of Entry", as delineated in California Health and Safety Code Section 41510 of Division 26, shall apply at all times. Failure to do so may be grounds for permit suspension or revocation.
11. All equipment, if any, regulated by this permit shall at all times be maintained in good working order and be operated as efficiently as possible to ensure compliance with all applicable emission limits.
12. This permit does not convey any property rights of any sort, or any exclusive privilege.
13. The permittee shall submit an application for any changes to the basic or control equipment for any permit unit in this permit. No change shall begin prior to the issuance of a permit.
14. The permittee shall not discharge such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property.
15. The permittee shall not discharge into the atmosphere from any source whatsoever any air contaminant for a period or periods aggregating more than three (3) minutes in any one hour which is as dark or darker in shade as that designated as No. 2 on the Ringlemann Chart, as published by the United States Bureau of Mines; or of such opacity as to obscure an observer's view to a degree equal to or greater than Ringlemann 2 or forty (40) percent opacity.
16. The permittee shall not handle, transport, or store material in such a manner as to allow unnecessary amounts of particulate matter to become airborne and leave the property. Reasonable precautions shall be taken to prevent particulate matter from becoming airborne.
17. The permittee shall not construct, erect, modify, operate, or use any equipment which conceals an air contaminant emission, which would otherwise constitute a violation of the limitations of this permit, unless the operation or use of said equipment results in a significant reduction in the total emission of air contaminants.



18. The permittee shall furnish to the APCO, within a reasonable time, any information that the APCO may request in writing to determine compliance with this permit or whether cause exists for modifying, revoking and reissuing, or terminating this permit. Upon request, the permittee shall also furnish to the APCO copies of records required to be kept by this permit.
19. This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies. The violation of any of these terms and conditions shall be grounds for revocation of this permit, and shall be a violation of AQMD Rules and Regulations.
20. Permit requirements apply to the facility owner and/or operator(s) and any contractor or subcontractor performing any activity authorized under this permit. Any person(s), including contractor(s) and/or subcontractor(s), not in compliance with the applicable permit requirements are in violation of State and local laws and subject to appropriate civil and criminal penalties. The facility owner and/or operator, and all contractor(s) or subcontractor(s) are liable for the actions and violations of their employee(s). Any violation committed by a contractor or subcontractor shall be considered a violation by the facility owner and/or operator, and is also a violation by the contractor and/or any subcontractor(s).

## OPERATIONAL CONDITIONS

21. The equipment regulated by this permit consists of that listed in Table I below:

**TABLE I**

<b>Unit No.</b>	<b>Make/Model</b>	<b>Serial No.</b>	<b>Rated Capacity</b>
Units 1 and 2	Two 1000 lb. carbon canisters in series	N/A	N/A

22. The equipment is authorized to operate 24 hours per day, 7 days per week, and 52 weeks per year for a total of 8760 hours per year.
23. The system shall be constructed and operated in accordance with all representations in the permit application dated April 4, 2005, and in accordance with the legal authority specified above and the conditions of this permit.
24. The owner or operator to whom this permit is issued is required to ensure in writing that every and all operating staff, contractors, subcontractors, and employees, are advised and familiar with all conditions contained in this permit prior to allowing any staff, contractors, or employees to operate any equipment or conduct any activities under this permit.
25. The facility shall maintain the permitted equipment in compliance with federal and State Occupational Safety and Health Administration requirements so as to ensure the health and safety of District representatives performing a site inspection.



26. Upon detection, an upset or breakdown condition, which causes or may cause a violation of the emissions limitations as set forth in District Rules or in the conditions of this permit, shall be corrected immediately.
27. Changes in plans, specifications, and other representations proposed in the application documents shall not be made if they will increase the discharge of emissions or cause a change in the method of control of emissions or in the character of emissions. Any such proposed changes shall be submitted as modification to this permit. No modification shall begin prior to issuance of a permit for such modification.

## EMISSION CONDITIONS

28. VOC loading and subsequent breakthrough into the discharge would have the potential to create fugitive VOC emissions from the system. The following monitoring program will be required to address this concern. Influent, midfluent (water sample collected between the two carbon vessels) and effluent water samples will be collected from the system on a bimonthly basis. The midfluent sample will serve as an alert to potential loading breakthrough of the carbon vessels. Upon this occurrence, the activated carbon inside the vessels used to absorb the VOC's will be replaced thus eliminating potential air quality impact. Any such incident is to be reported to the APCO within 24 hours.
29. Emissions for the system shall not exceed the emission limits in Table II below

T ABLE II

Pollutant	ug/m <sup>3</sup>	Regulation
TPH	4.0E+05	NSR/PSD
Benzene	6.0E+01	OEHHA/ARB
Ethylbenzene	2.00E+03	OEHHA/ARB
Toluene	3.00E+02	OEHHA/ARB
Xylene	7.00E+02	OEHHA/ARB

30. The permittee shall not discharge particulate matter into the atmosphere from any combustion source in excess of 0.20 grains per cubic foot of dry gas calculated to 12 percent CO<sub>2</sub> at standard conditions.



## **MONITORING**

31. No less than 30 minutes after start-up, the permittee shall analyze the air immediately above the treated groundwater discharge to determine the concentration of benzene, toluene, ethylbenzene, MTBE, xylenes, and TPHg present. This analysis shall be run a second time within 24 to 30 hours after the initial test. The results shall be reported in writing to the AQMD within ten (10) work days after the second testing procedure is completed.
32. After the initial testing required by Condition 29 is complete, the permittee shall analyze the air immediately above the treated groundwater discharge to determine the presence and concentration of benzene, toluene, ethylbenzene, MTBE, xylenes, and TPHg once per calendar quarter. The results shall be reported in writing to the AQMD quarterly for each calendar year in which the system is operating.
33. Notwithstanding Condition 30, if the emission limits in Table II are not exceeded for two consecutive tests, then the frequency of the analysis may be decreased to semi-annually. The results shall be reported within ten (10) work days, in writing, to the AQMD for each calendar year in which the system is operating.
34. If the groundwater extraction system has not been operating for more than 30 days, then the permittee shall repeat the testing required by Condition 29 twice within the first four days following restart, and then on a quarterly basis.
35. The permittee shall calculate the benzene, toluene, ethylbenzene, MTBE, xylenes, and TPHg emission rate in micrograms per meter cubed. The groundwater extraction flow rates shall be decreased, if necessary, to demonstrate compliance with the emission limits in Table II.
36. The permittee shall submit the test results and emission calculations to the District within ten (10) work days, in writing. Samples shall be analyzed according to modified EPA test method TO-14 or equivalent to determine the concentrations of benzene, toluene, ethylbenzene, MTBE, xylenes, and TPHg.

## **RECORDKEEPING CONDITIONS**

37. A breakdown log shall be maintained that describes the breakdown, includes the date and time of the breakdown, the cause of the breakdown, corrective measures taken, and the date and time when the breakdown was corrected.
38. Records required by this section shall be maintained on-site for a minimum of two (2) years from the time of recording and shall be made available to AQMD personnel upon request.



## REPORTING CONDITIONS

39. The permittee shall notify the Compliance Section, AQMD in writing of the anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date.
40. The permittee shall notify the Compliance Section, AQMD in writing of the equipment serial number and the actual date of initial startup of each new or modified source within fifteen (15) days after the startup date.
41. Any subsequent owner or operators shall request, in writing, to the Permitting Section of the AQMD, a name change within fifteen (15) days of the change in ownership.
42. The permittee shall provide information requested by the AQMD for emission inventory purposes within thirty (30) days of receiving the request.
43. Failure of any air pollution control device shall be reported to the AQMD as soon as reasonably possible, but no later than one (1) hour after detection during normal office hours (9:00 a.m. to 5:00 p.m.), or one hour after the start of the next regular business day, whichever is sooner, and the permittee shall take immediate steps to minimize the impact of the failure.
44. The permittee shall report to the AQMD any deviations from the requirements of this permit, including those attributable to breakdown conditions, the probable cause of the deviations, and any corrective actions or preventive measures taken.
45. The permittee shall notify the AQMD in writing of any necessary update or correction to this permit no more than fifteen (15) days after the operator knows or should have known of the condition necessitating the update or correction to the permit.



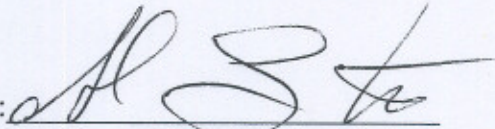
**NORTH COAST UNIFIED  
AIR QUALITY  
MANAGEMENT DISTRICT**

2300 MYRTLE AVENUE  
EUREKA, CALIFORNIA 95501

PHONE (707) 443-3093  
FAX (707) 443-3099

DATE: 6-23-2005

BY:



AL STEER

Permit Program Manager

for

LAWRENCE D. ODLE  
Air Pollution Control Officer



Permit Seal